

What is claimed is:

1. A metallic wire comprising:
 - an outer shell made of a first metal; and
 - a plurality of wire elements disposed within said shell, each said wire elements comprising a metallic shell made of a second metal, said metallic shell filled with a third metal, said plurality of wire elements being compacted together whereby no voids exist within said outer shell.
2. The lead according to claim 1 wherein said first metal is biocompatible.
3. The lead according to claim 1 wherein said first metal is platinum.
4. The lead according to claim 1 wherein said third metal is silver.
5. The lead according to claim 1 wherein said second metal is ASTM Standard F562.
6. The lead according to claim 1 wherein said wire elements are twisted together into a bundle.
7. The lead according to claim 1 wherein said plurality of wire elements includes at least one hollow tube.
8. The lead according to claim 1 wherein at least two of said plurality of metallic shells are filled with different metals.
9. The lead according to claim 8 wherein one of said metallic shells is filled with silver and another of said metallic shells is filled with tantalum.
10. The lead according to claim 1 including a layer of electrically insulating material covering said outer shell.
11. The lead according to claim 1 including a second outer shell covering said outer shell, said second outer shell made of a fourth metal.
12. A method of making a lead, said method comprising:
 - providing a first tube made of a first metal, said first tube having a first diameter;
 - forming a plurality of wire elements into a bundle, said wire elements each

comprising a metallic shell made of a second metal, said metallic shell filled with a third metal;

inserting said bundle into said first tube to form an assembly; and

thereafter drawing said assembly down to form a wire with a second diameter.

13. The method according to claim 12 wherein said first metal is biocompatible.
14. The method according to claim 12 wherein at least two of said wire elements are filled with different metals.
15. The method according to claim 12 wherein said third metal is silver.
16. The method according to claim 12 wherein said first metal is platinum.
17. The method according to claim 12 wherein said second metal is ASTM Standard F562.
18. The method according to claim 12 further comprising the step of, prior to said drawing step, providing a second metallic tube made of a fourth metal and inserting said assembly into said second metallic tube.
19. The method according to claim 12 wherein said method further includes the step of coating said first tube with an electrically non-conductive insulating material.